SONY®

STEREO TURNTABLE SYSTEM

PS-LX1

OPERATING INSTRUCTIONS

Before operating the unit, please read this manual thoroughly.
This manual should be retained for future reference.

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OWNER'S RECORD

The model and serial numbers are located at the rear. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. PS-LX1 Serial No. 810361

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

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FEATURES

- Magnedisc Servo System monitors the speed of the turntable with great precision.
- The linear torque BSL (brushless and slotless) direct drive servo motor has a high signal-to-noise ratio.
- The low-mass tonearm and cartridge allow the stylus to track with greater accuracy.
- Reject lever to stop during record play at any point.
- Disc centering guides facilitate placing a 30 cm record over the center spindle.

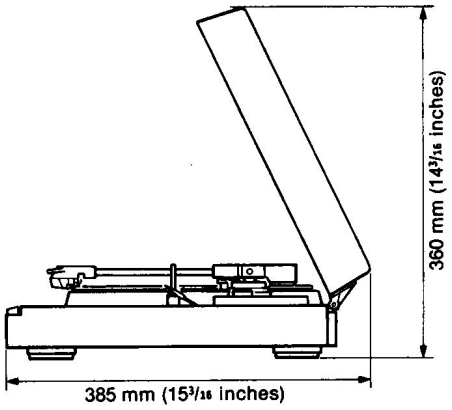
PRECAUTIONS

On safety

- Operate the unit only on 120 V ac.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

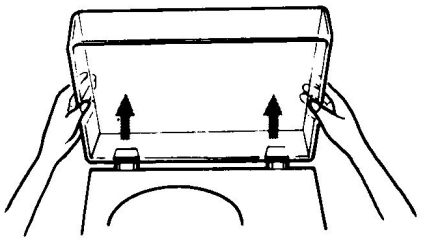
On installation

- Place the turntable on a level surface.
- Avoid placing the unit near electrical appliances (such as a television, hair dryer, or fluorescent lamp) which may cause hum or noise.
- Place the turntable where it will not be subject to any vibration, such as from speakers, slamming of doors, etc.
- Keep the unit away from direct sunlight, extremes of temperature, and excessive dust and moisture.
- Allow at least 10 cm (4 inches) clearance behind the unit so that the cover can be opened.



On dust cover removal

Open the dust cover fully and slide it upward with both hands.

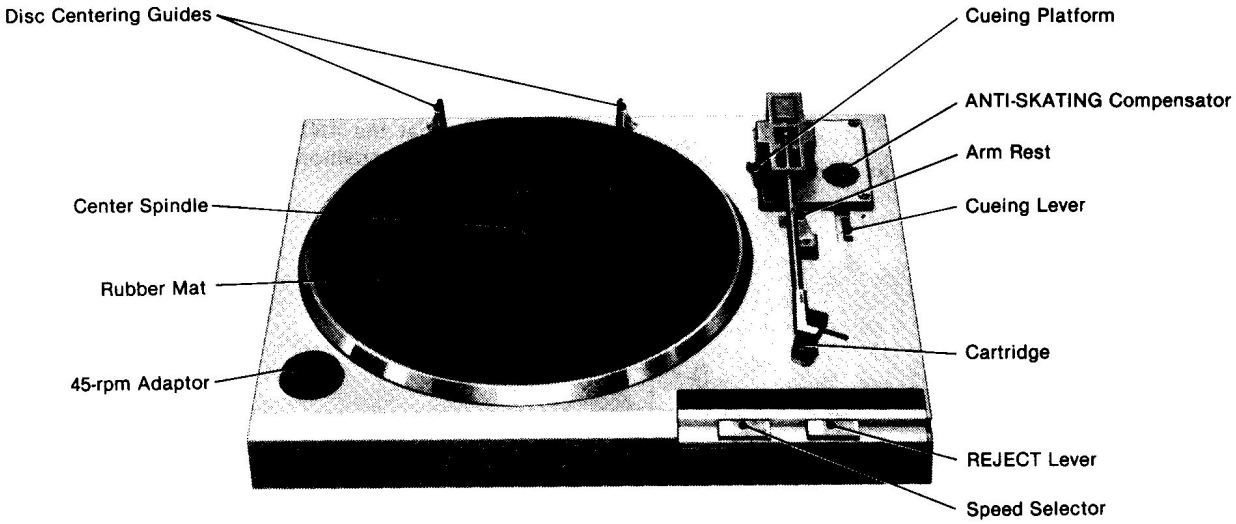


On repacking

Do not throw away the carton and packing materials. It is an ideal container in which to transport the unit. When shipping the unit to another location, secure the tonearm to the arm rest and repack it as illustrated on the carton box.

PARTS IDENTIFICATION

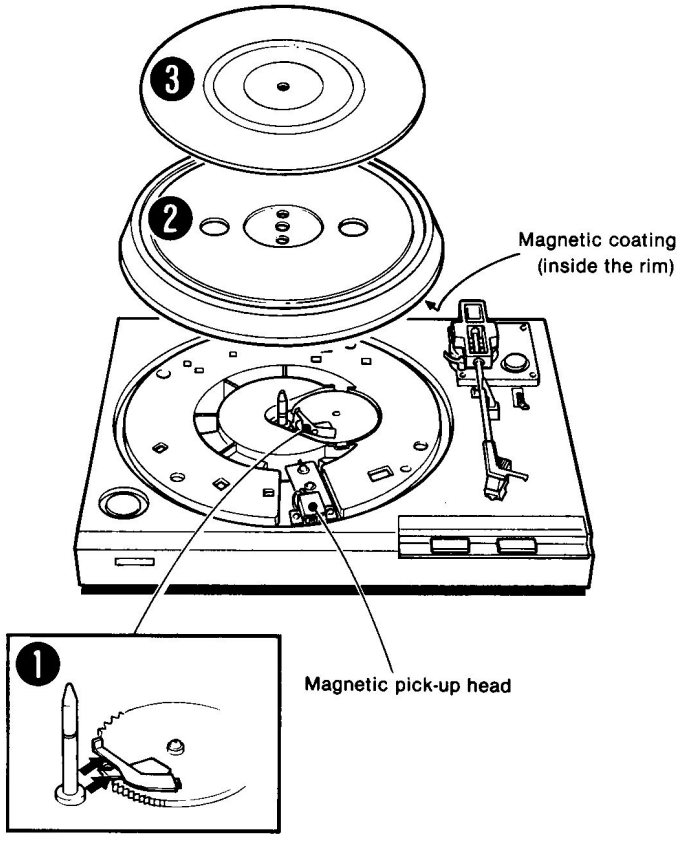
The picture below shows the appearance of the assembled turntable.



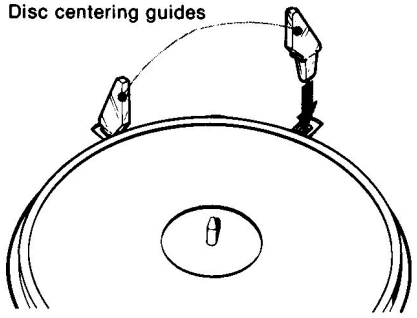
TURNTABLE ASSEMBLY

Do not connect the power cord or the connecting cords until the turntable has been completely assembled.
Remove all packing material and wipe the cabinet off.
Save the packing box and materials for possible future use.
The numbers in the illustration refer to the sequence of assembly.

❶ Keep the metallic parts indicated by the arrows in the illustration inside the large white gear.
❷ Carefully place the platter on the motor board by fitting the center hole over the center spindle. Be careful that no foreign objects lodge under the platter.
● Do not touch the magnetic coating or the magnetic pick-up head.
❸ Place the rubber mat on the platter.

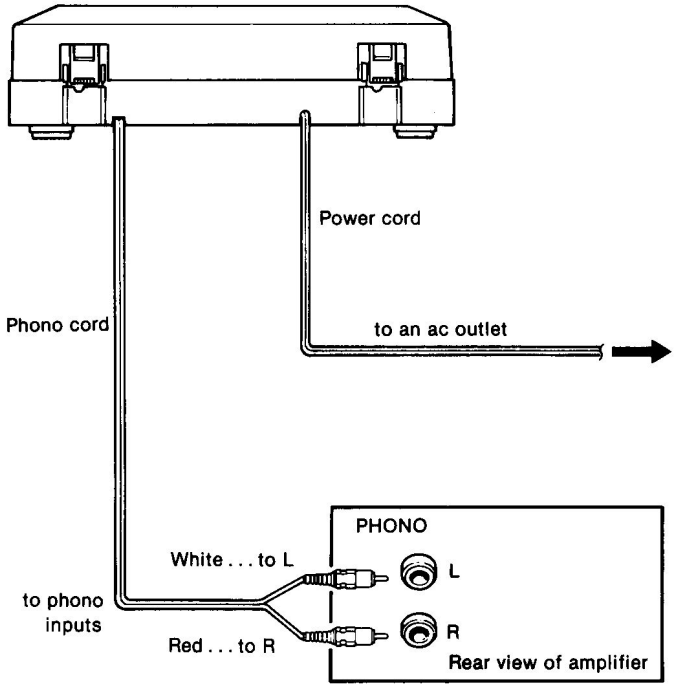


Disc centering guide installation
Insert the supplied disc centering guides as illustrated.



CONNECTIONS

● Turn off the amplifier before making connections.
● Be sure to insert the cable connectors firmly into the jacks. Loose connections may cause hum and noise.
● Connect the red plug of the connecting cord to the right-channel jack [R] of the amplifier and the white plug to the left-channel jack [L]. Otherwise, the right and left channels will be reversed.
● Leave a little slack in the connecting cord to allow for inadvertent shock or vibration.

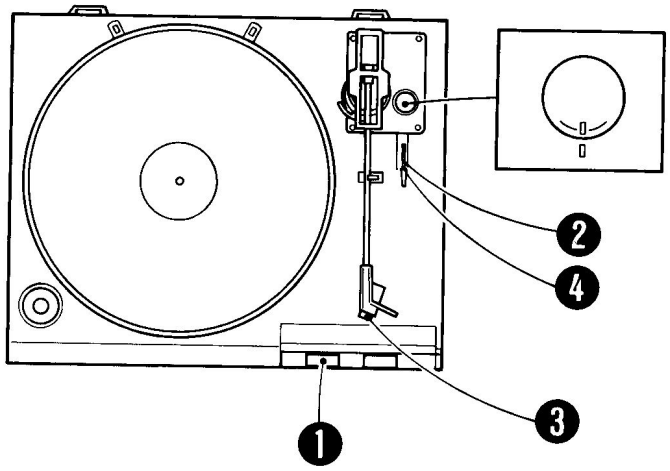


RECORD PLAYING

PREPARATION
● Place a record on the platter. For 17 cm (7 inch) records, put the supplied 45-rpm adaptor over the center spindle.
● Lower the amplifier volume and set the input selector to PHONO.
● Make sure that the ANTI-SKATING compensator is set at the center (▮ marked) position.

TO START PLAYING

The numbers in the illustration refer to the sequence of operation.



❶ Set the speed selector according to the speed of a record to be played.
❷ Set the cueing lever to the ▼ position to raise the tonearm.
❸ Remove the stylus guard and bring the tonearm above the lead-in groove of the record. The turntable start rotating.
❹ Set the cueing lever to the ▼ position. The tonearm will lower onto the record and the record will begin playing.

● After the tonearm has lowered onto the record, adjust the volume and tone of the amplifier.
● When the tonearm reaches the end of the record, it will be automatically raised and return to its rest. Secure the tonearm to the arm rest. The turntable will stop rotating and the power will be turned off automatically.

Note on ANTI-SKATING compensator

While the record is being played, friction between the record groove and the stylus produces a force that tends to drive the tonearm toward the center of the record. The anti-skating compensator cancels this force.
In this turntable system, the correct anti-skating compensation is obtained when the compensator is set at the center position. The compensator must be adjusted if the following irregularity is noticed when the tonearm is lowered to the lead-in groove :

If the stylus is driven inward...turn the ANTI-SKATING compensator to + .
If the stylus is driven outward...turn the ANTI-SKATING compensator to – .

TO LIFT UP THE STYLUS DURING PLAY

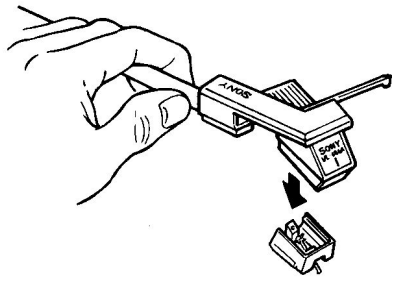
To listen to another part of the record being played, or to lift up the stylus on a record for a brief moment and start playing from the same point, set the cueing lever to the ▼ position.
The tonearm will lift up. To lower it again, set the cueing lever to ▼.

TO STOP DURING PLAY

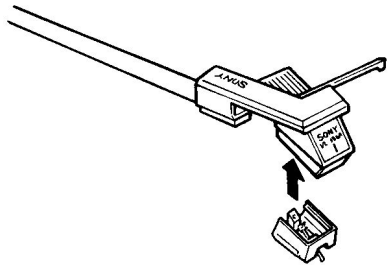
Push the REJECT lever to the right . The tonearm will lift up and automatically return to the arm rest.
The cueing platform will lower when the tonearm reaches the arm rest and the unit will be turned off.

REPLACING THE STYLUS

The stylus will lose its effectiveness and begin to damage records after about 400 hours of use.
For replacement stylus, use Sony ND-138G or Audio Technica ATN-3400.
Handle the stylus carefully as it is very delicate.
Install the replacement stylus as follows.
❶ Lower the sound level or turn the amplifier off.
❷ While holding the tonearm pipe with the left hand, detach the stylus assembly by grasping it between the thumb and forefinger and pulling gently in the direction of the arrow.



❸ Insert the new stylus into the cartridge.

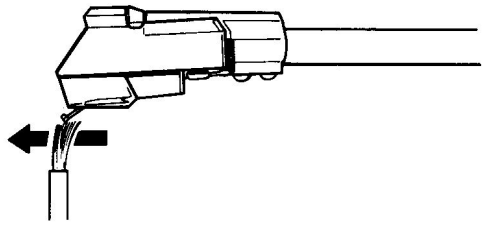


TIPS ON RECORD HANDLING

● Before playing, clean the record with a record cleaner or soft cloth. If a spray cleaner is used, make sure that it has dried completely before playing the record. Playing the record before the cleaner has dried may damage the record.
It is a good idea to clean the record again before putting it away.
● Handle a record by its edges and do not touch the grooves.
Fingerprints on the record surface may encourage an accumulation of dust, resulting in impaired tone.
● Use a commercially available anti-static spray to neutralize the static electricity on a record.
● Avoid exposing a record to direct sunlight or sources of heat, such as a hot-air duct.
● Store your records vertically. They should not be compressed.

MAINTENANCE

Stylus
Before playing a record, clean the stylus with a soft brush. Brush the stylus from back to front. Never attempt to clean the stylus with your finger tip. If a fluid stylus cleaner is used, make sure not to moisten the stylus too much.



Cabinet
Clean the cabinet and dust cover periodically with a soft dry cloth. If the stains are difficult to remove, use a cloth moistened with a mild detergent solution. Do not use solvents such as alcohol, benzine or thinner, since they will damage the finish.

Rubber mat
When the rubber mat becomes dirty, wipe it gently with a soft cloth slightly dampened with water.

Lubrication
The turntable requires no periodic lubrication. The motor shaft is lubricated at the factory for the life of the turntable.

SPECIFICATIONS

Turntable

Platter	30.4 cm (12 in.), aluminum-alloy diecast
Motor	Linear torque BSL (brushless and slotless) motor
Drive system	Direct drive
Control system	Magnedisc servo control system
Speed	33⅓ rpm, 45 rpm
Wow and flutter	0.03% (WRMS)*, 0.04% (WRMS)
Signal-to-noise ratio	72 dB (DIN-B)
Automatic system	Return, reject

Tonearm

Type	Statically balanced
Pivot-to-stylus length	216.5 mm (8½ in.)
Overall arm length	275 mm (10⅞ in.)
Overhang	16.5 mm (²¹/₃₂ in.)
Tracking error	+3°, −1°

Cartridge VL-38GSA

Type	Moving magnet type
Frequency response	20 to 20,000 Hz
Channel separation	20 dB at 1 kHz
Output voltage	2.5 mV at 1 kHz, 5 cm/sec., 45°
Load impedance	50 to 100 kilohms
Tracking force	2.5 g
Stylus	Sony ND-138G, Audio Technica ATN-3400 (0.6 mil diamond)
Weight	8 g

General

Power requirements	120 V ac, 60 Hz
Power consumption	5 W
Dimensions	Approx. 430 × 105 × 345 mm (w/h/d) (17 × 4¼ × 13⅝ in.) including projecting parts and controls
Weight	Approx. 4.3 kg (9 lbs 8 oz) net Approx. 5.6 kg (12 lbs 6 oz), in shipping carton
Supplied accessory	45-rpm adaptor (1) Disc centering guide (1 set)

Design and specifications subject to change without notice.

* This new measuring method concerns only the turntable assembly, including the platter. It excludes wow and flutter caused by the tonearm, the cartridge, or the record. Measured by obtaining signal from magnetic pick-up head.

TROUBLE CHECKS

The following trouble checks will help you correct most common problems encountered with a turntable system. Should any problem persist after you have made these checks, consult your nearest Sony service facility.
Before proceeding with these trouble checks, first refer to the connections and the operating procedures on page 4.

Impaired tone quality
- Dusty stylus.
- The turntable is not placed on a level surface.
- The turntable is incorrectly placed on or too near a speaker.
- Worn stylus or defective record. (The stylus life is approximately 400 hours of playing time.)

No audio from one channel
- Loose connection of phono connecting cord.
- Low volume level setting for one channel of the amplifier.

Groove skipping, tonearm tends to skate, tonearm does not advance.
- Improper setting of the anti-skating compensator.
- The turntable is not placed on a level surface.
- Defective record.
- External vibrations.

Steady low-pitched hum
- Loose connection of phono cord.

Loud rumble or low-frequency howl*
- The turntable is affected by external vibration.
- The turntable is too near a speaker.

*This is called "acoustic feedback" and is caused when vibrations from the speakers are transmitted through the air or via solid objects (such as the shelves, the cabinet, the floor, etc.) to the turntable, where it is picked up by the stylus, amplified and reproduced through the speakers once again.

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